



BARRICK RESOURCES (USA), INC.

Waye

DOGM
MINERALS PROGRAM
FILE COPY

March 9, 1992

Mr. Lowell P. Braxton
Associate Director, Mining
Utah Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center Suite 350
Salt Lake City, UT 84180-1203

Dear Mr. Braxton:

Subject: M/045/017, Tooele County, Utah
Dump Leach 3 Conceptual Closure and Postclosure
Monitoring Plan

Pursuant to the division's correspondence received January 30, 1992, requesting further clarification to Barrick's conceptual closure plans for Dump Leach 3, please find attached the line item response to each of the division's concerns. Additionally included are the revised drawings 9.91.3A, and 9.91.4A, and the revised page 59 of the MRP.

The enclosed response should clear up any questions or concerns by the division pertaining to the conceptual closure plans for Dump Leach Area 3. Please contact me should you have any questions concerning this submittal.

Respectfully,

David P. Beatty
Environmental/Occupational Health Coordinator

DPB:ms

Enclosures

INSERTED INTO
MAIN VOLUME OF NOI

cc: G. M. Eurick
T. B. Faddies
C. L. Landa
C. L. Olsen
M. P. Richardson
R. R. Sacrison
F. D. Wicks
D. Bird/Parsons Behle & Latimer
S. Brooks/BLM
B. Buck/JBR Consultants
R. Johnson/Tooele County
D. Ostler/DWQ

MAR 16 1992

DIVISION OF
OIL GAS & MINING

BARRICK RESPONSE TO DOGM CONCERNS

Dated January 24, 1992

R647-004-110-Reclamation Plan

110.2

1. a) *✓-ok day* A minimum thickness of 12 inches of compacted clay can be assured by a rigorous survey. It is proposed to shoot elevations on 50-foot centers to maintain this integrity.

At Mercur, exhaustive data exists showing the reliability of Long Trail clay as an earthen liner. To date, three dump leach operations and a portion of the tailing impoundment have used this media with no indication of clay failure.

Prior to reclamation, a field test can be conducted to evaluate the compaction achievable through the proposed construction methods. Clay samples can then be extracted for permeability testing. The data can be used to indicate the suitability of the proposed methods for the requirements at hand.

- ✓-ok day* b) As stated on page 2 of the conceptual closure plan, the clay cap will be placed on the 1.5:1 side slopes followed by bulk fill placement which will change the side slopes to 2:1. Subsoil and topsoil covers will then follow, and will remain on the 2:1 slope configuration.

- ✓-ok HWS* c) The bulk fill will be placed by end dumping in 10 foot lifts beginning at the bottom of the slope. Compaction will take place by wheel rolling over the first 10 foot lift while placing the second 10 foot lift and proceeding up slope until completed. Dozer shaping will insure a 2:1 slope.

- ✓-no-HWS* 2. Slope surface stability on the 2:1 slopes will be assured by vegetative growth, hydromulching the side slopes with a mulch/fertilizer/seed mixture as the topsoil placement is completed. The trenches/swales on 200 foot centers will prevent rapid runoff and any rills forming on the slope surface. This type of surface stability has been shown to be successful on the face of our tailings dam at a similar 2:1 slope.

110.5 Revegetation planting program and topsoil redistribution:

- ✓-ok-HWS* 1. a) The subsoil will be excavated from the lower Meadow Canyon dumps, to the south of Dump Leach 3, as well as the Marion Hill dumps to the southwest. This excavation will be part of the reclamation contouring of those dumps.

✓-ok-HWS
Over the life of the mine, approximately 6.4 Mcy of subsoil quality material will have been placed in the mine dumps. This should be more than sufficient to provide the requisite 213,000 cy for the Dump Leach 3 reclamation cap.

✓-ok-HWS
b) The top and side slopes of Dump Leach Area 3 equal approximately 40.0 acres. The subsoil volume 213,000 cy and topsoil volume (80,000 cy) as calculated in the conceptual closure plan will be more than sufficient to cover the dump leach at the time of reclamation.

✓-ok-HWS
2. The access road between Dump Leach 3 and the tailings impoundment was constructed by dozer cutting the side slope. Any topsoil removed by this process remains on the downhill side of the access road. As requested by the division in your December 21, 1990 technical review, the reclamation of this road has been addressed in Item #8. Roads (page 59) of the revised (October 25, 1991) MRP.

✓-ok-HWS
3. The 36 inch subsoil cover and 12 inch topsoil cover will be placed on the dump leach by end dumping from the top of the slope and dozed downhill with only a single pass of the dozer. Low ground pressure dozers may be utilized if a further reduction in compaction is necessary.

R647-004-111 Reclamation Practices

a) No comment

DWH? ✓-ok-HWS
b) Page 59, Section 7 - Drainage Control Structures, has been modified in accordance with the cited documents. Drawing 9.91.3 has been revised to illustrate the modification.
DRAWING 2.4.3 STILL SHOWS POUNDS-002

✓-ok-HWS
c) Page 59 of the revised MRP, Section 8 - Roads, has been modified to include: haul roads and access roads scheduled for reclamation would be scarified "by ripping to a minimum depth of 12 inches" and topsoiled . . .

d) Drawings 9.91.3 and 9.91.4 have been revised to describe the construction of the western diversion structure.

✓-ok-HWS
SEE NOTE ON
DETAIL SECTION
E-3
The west access road area will remain at a nominal 65 foot width. A 20 foot wide rocked strip will be left on the west edge for drainage, and will be locally lower than the east side. The east side of the access road will be scarified to a minimum depth of 12 inches and topsoiled prior to revegetation.

✓-ok-HWS
e) Page 59, Section 7 - Drainage Control Structures, has been modified in accordance with the division's request R647-004-111 paragraph e, describing low surface runoff

will be routed along the western edge of the dump leach facility.

- f) Post closure monitoring of the groundwater monitor wells will be in accordance with the State of Utah Division of Water Quality guidelines. Post-closure monitoring of the revegetative efforts will be on an annual basis for 3 years or until final reclamation is established in accordance with the division's surety bond release guidelines.

General Comments:

1. No comment.

2. Long-term maintenance responsibility for the Meadow Canyon access road and drainage diversions will be in accordance with any agreements established by Tooele County and Barrick's conditional use permit and/or adjacent land owners at the time of closure.

3. Drawing 9-91-3 entitled, Proposed Closure and Reclamation Plan Dump Leach Area No. 3, shows the post reclamation contours. Drawing 6-89-5, Proposed Final Configuration-Reservation Canyon Tails and Dump Leach No. 3, shows the prereclamation contours. - ACCESS TO SURVEY POINT NOT REQUIRED

4. R647-004-106.2 Operation Plan

Acid-base potential analysis of material mined from the Sacramento Pit and placed on the Sunrise Dump is being addressed and will be forwarded to the division under separate cover.

RECEIVED MAR 30, 1992